## SEQUENCE LISTING

<110> Huang, Ning Hwang, Yong-Sic Yang, Daichang Schmidt, Robert J.	
<120> Plant Transcription Factors and Enhanced Gene Expression	
<130> 0665-0018.30	
<140> Not Yet Assigned <141> Filed Herewith	*
<150> US 60/201,182 <151> 2000-05-02	
<150> US 60/266,920 <151> 2001-02-06	
<160> 35	
<170> FastSEQ for Windows Version 4.0	
<210> 1 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> primer	
<400> 1 ctgatatgtg cccatgttcc aaac	24
<210> 2 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> primer	
<400> 2 ccttgctgaa tgcagatgtt tcac	24
<210> 3 <211> 27 <212> DNA <213> Artificial Sequence	
<220> <223> primer	
<400> 3	

	All white agreements tagette	27
	gttagtctgc agtgtaagtg tagcttc	
	<210> 4	
	<211> 29	
	<212> DNA <213> Artificial Sequence	
	<213> Artificial Sequence	
	<220>	
	<223> primer	•
	<400> 4	29
	atggttgtct agattttgtg ggactgaac	
	<210> 5	
	<211> 32	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	<400> 5	32
7	acagacagct gcagagatat ggattttcta ag	32
	<210> 6	
<del>-</del>	<211> 33	
7	<212> DNA	
19	<213> Artificial Sequence	
	<220>	
	<223> primer	
7	<400> 6	33
= 1]	ggaactctct agagctattt gtacttgctt atg	23
	<210> 7 <211> 27	
<u> </u>	<211> 27 <212> DNA	
ė.	<213> Artificial Sequence	
	<220>	
	<223> primer	
	(223) p11m02	
	<400> 7	27
	tccgagctgc agtaatggat acctagt	
	<210> 8	
	<211> 27	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer .	
	<400> 8	27
	gtagtttcta gagctattag cagttgc	21

	<210> 9	
	<211> 27	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	4400	
	<400> 9	27
	cggtgctgca gatgggttgg gaaccct	
	<210> 10	
	<211> 28	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	(200, F======	
	<400> 10	28
	atgatctaga ttgctctggg acatagat	
	<210> 11	
=	<211> 27	
	<212> DNA	
;== -12	<213> Artificial Sequence	
;= . 1	•	
백 대	<220>	
1.3 1 i	<223> primer	
free free free free The free free free free		
	<400> 11 aattcctgca gcatcggctt aggtgta	27
_	aatteetgea geateggees 155-5-5	
Ħ	<210> 12	
: 1 : 2 : 2 : 2 : 3 : 3 : 4 : 4 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5	<211> 27	
	<212> DNA	
	<213> Artificial Sequence	
-L	<220>	
	<223> primer	
	(220) Pramer	
	<400> 12	27
	tgatctagat tgttgttgga ttctact	2,
	2010× 12	
	<210> 13 <211> 29	
	<211> 23 <212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	400× 13	
	<400> 13 ggcgcctgca gggaggagag gggagagat	29
	ddedeecada dddadaaa gaanana	
	<210> 14	
	211> 29	

	<212> DNA <213> Artificial Sequence	
	<220>	
	<223> primer	
	<400> 14	29
	accttgctct agattgatga tcaatcaga	
	<210> 15	
	<211> 31	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	<400> 15	31
	cgtcgtctct gcaggccagg gaaagacaat g	31
	<210> 16	
à	<211> 29 <212> DNA	
ŧ	<213> Artificial Sequence	
time trens from Memo is Stade traditional	(215) 112 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	
n n	<220>	
Shine	<223> primer	
	<400> 16	29
4	cgcttatcta gatcagtgaa ctgtcagtg	
j	(010) 17	
÷	<210> 17 <211> 27	
9	<211> Z/ <212> DNA	
2	<213> Artificial Sequence	
ुल फिली पेमक फेर्मी क्यमी फेर्म		
į	<220> <223> primer	
	(223) PIIor	
	<400> 17	27
	ttctgggatc caagatgcct accgagg	
	<210> 18	
	<211> 27	
	<212> DNA	
	<213> Artificial Sequence	
	<220>	
	<223> primer	
	<400> 18 ggggtcggat ccgagatggg catggac	27
	ggggccggac ccgagacggg ca-ss-	
	<210> 19	
	<211> 28	
	<212> DNA <213> Artificial Sequence	
	<pre><x13> Artificial pedacues</x13></pre>	

	<220> <223> primer	
	<400> 19 agtggggatc ctaagccgag gccgcaac	28
	<210> 20 <211> 28 <212> DNA <213> Artificial Sequence	
	<220> <223> primer	
	<400> 20 gctaggggat cctggtgcat aggtagca	28
	<210> 21 <211> 19 <212> DNA <213> Artificial Sequence	
	<220> <223> primer	
	<400> 21 cggcaacagg attcaatct	19
	<210> 22 <211> 24 . <212> DNA <213> Artificial Sequence	
u D	<220> <223> primer	
	<400> 22 ccatccaatc caatccactc caac	24
	<210> 23 <211> 21 <212> DNA <213> Artificial Sequence	
	<220> <223> primer	
	<400> 23 aggcgattaa gttgggtaac g	21
	<210> 24 <211> 24 <212> DNA <213> Artificial Sequence	
	<220>	

```
<223> primer
<400> 24
                                                                         24
cctagccaaa gtcttcgagc ggtg
<210> 25
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 25
                                                                         18
gcgatgttgt cttgcagc
<210> 26
<211> 779
<212> DNA
<213> Oryza sativa
<400> 26
                                                                        60
ttctgtagta cagacaaaac taaaagtaat gaaagaagat gtggtgttag aaaaggaaac
aatatcatga gtaatgtgtg agcattatgg gaccacgaaa taaaaagaac attttgatga
                                                                       120
                                                                       180
gtcgtgtatc ctcgatgagc ctcaaaagtt ctctcacccc ggataagaaa cccttaagca
                                                                       240
atqtqcaaaq tttqcattct ccactqacat aatqcaaaat aaqatatcat cgatqacata
gcaactcatg catcatatca tgcctctctc aacctattca ttcctactca tctacataag
                                                                       300
tatcttcagc taaatgttag aacataaacc cataagtcac gtttgatgag tattaggcgt
                                                                       360
                                                                       420
gacacatgac aaatcacaga ctcaagcaag ataaagcaaa atgatgtgta cataaaactc
cagagetata tgteatattg caaaaagagg agagettata agacaaggea tgaeteacaa
                                                                       480
                                                                       540
aaattcactt gcctttcgtg tcaaaaagag gagggcttta cattatccat gtcatattgc
aaaagaaaga gagaaagaac aacacaatgc tgcgtcaatt atacatatct gtatgtccat
                                                                       600
cattattcat ccacctttcg tgtaccacac ttcatatatc ataagagtca cttcacgtct
                                                                       660
ggacattaac aaactctatc ttaacattta gatgcaagag cctttatctc actataaatg
                                                                       720
cacgatgatt tctcattgtt tctcacaaaa agcattcagt tcattagtcc tacaacaac
                                                                       779
<210> 27
<211> 672
<212> DNA
<213> Oryza sativa
<400> 27
aattoottot acatoggott aggtgtagca acacgacttt attattatta ttattattat
                                                                         60
tattattatt ttacaaaaat ataaaataga tcagtccctc accacaagta gagcaagttg
                                                                       120
gtgagttatt gtaaagttct acaaagctaa tttaaaagtt attgcattaa cttatttcat
                                                                       180
attacaaaca agagtgtcaa tggaacaatg aaaaccatat gacatactat aattttgttt
                                                                       240
ttattattga aattatataa ttcaaagaga ataaatccac atagccgtaa agttctacat
                                                                       300
                                                                       360
gtggtgcatt accaaaatat atatagctta caaaacatga caagcttagt ttgaaaaatt
                                                                       420
gcaatcctta tcacattgac acataaagtg agtgatgagt cataatatta tttttcttgc
tacccatcat gtatatatga tagccacaaa gttactttga tgatgatatc aaagaacatt
                                                                       480
tttaggtgca cctaacagaa tatccaaata atatgactca cttagatcat aatagagcat
                                                                       540
caagtaaaac taacactcta aagcaaccga tgggaaagca tctataaata gacaagcaca
                                                                       600
atgaaaatcc tcatcatcct tcaccacaat tcaaatatta tagttgaagc atagtagtag
                                                                       660
aatccaacaa ca
                                                                       672
<210> 28
<211> 879
```

```
<212> DNA
<213> Oryza sativa
<400> 28
aaqcttqcqc qcggaatacg gtggtggaga tgggttggga accctggatt ccaaacacag
                                                                        60
cccaagtcta tccaaaatgt ttagacaaga aaatacgtaa caagttggtt tacagaaata
                                                                       120
                                                                       180
qcaattagat caatcctgca ctacaagtag agtaaagtgg tgatttctct taaatctctc
gaatggtgat ttaagaattc agtgcaaacc aaatccttgc tataatcaaa tgttcggtac
                                                                       240
                                                                       300
cccatcaacg gaacaataaa aagcgcctgg ctaccataat tttgtcattc ttcttcaatt
tgtaatttaa gatgcatgag gccacacgac cttaatgttc aacgtgtcat gcattagtga
                                                                       360
                                                                       420
aataataqct cacaaaacqc aacaaatata gctagataac ggttgcaatc cttaccaaac
                                                                       480
taacgtataa agtgagcgat tagtcatatc attatctccc gcctgctaac catcgtgtac
                                                                       540
accatccgat ccaaaaatga caacttctag ggatgaacct ggacaaggtt tagggtttag
                                                                       600
qqatqaatct qqacaatgat tgttcaggtt catccctaga tgttgctttc tccttacggg
acggagggag tatatgtgat ggacacaaaa gttactttca tgatgaaagg aaaggggatt
                                                                       660
                                                                       720
tgttggggca ctaatagaac atctgtccaa atggcatgac tcacttatat cctaatagga
catccaagaa aaactaacac tctaaagcaa ccgatgagga attgaaagaa aatacgtgcc
                                                                       780
                                                                       840
accqcatcta taaatqqaca agcqcaatqq aaaccctcct catcqttcac acaqttcaaq
                                                                       879
cattatacag caaaatagaa agatctatgt cccagagca
<210> 29
<211> 883
<212> DNA
<213> Oryza sativa
<400> 29
ctgcagggag gagagggag agatggtgag agaggaggaa gaagaggagg ggtgacaatg
                                                                        60
                                                                       120
atatgtgggc catgtggccc ccaccatttt ttaattcatt cttttgttga aactgacatg
                                                                       180
tgggtcccat gagaattatt atttttcgga tcgaattgcc acgtaagcgc tacgtcaatg
                                                                       240
ctacqtcaqa tqaaqaccqa qtcaaattaq ccacqtaagc gccacqtcag ccaaaaccac
                                                                       300
catccaaacc gccgagggac ctcatctgca ctggttttga tagttgaggg acccgttgta
cgtgggcttc caatcctcct caaattaaag ggccttttta aaatagataa ttgccttctt
                                                                       360
                                                                       420
tcaqtcaccc ataaaagtac aaaactacta ccaacaagca acatgcgcag ttacacacat
                                                                       480
tttctqcaca tttccaccac qtcacaaaqa qctaaqaqtt atccctagga caatctcatt
                                                                       540
agtgtagata catccattaa tcttttatca gaggcaaacg taaagccgct ctttatgaca
                                                                       600
aaaataggtg acacaaaagt gttatctgcc acatacataa cttcagaaat tacccaacac
                                                                       660
caaqaqaaaa ataaaaaaaa atctttttgc aagctccaaa tcttggaaac ctttttcact
                                                                       720
ctttgcagca ttgtactctt gctctttttc caaccgatcc atgtcaccct caagcttcta
                                                                       780
cttgatctac acquagctca ccgtgcacac aaccatggcc acaaaaaccc tataaaaccc
                                                                       840
catccgatcg ccatcatctc atcatcagtt catcaccaac aaacaaaaga ggaaaaaaaaa
                                                                       883
catatacact tctagtgatt gtctgattga tcatcaatct aga
<210> 30
<211> 877
<212> DNA
<213> Tricticum aestivum
<400> 30
ctgcaggcca gggaaagaca atggacatgc aaagaggtag gggcagggaa gaaacacttg
                                                                        60
                                                                       120
qaqatcataq aaqaacataa qaqqttaaac ataqqaqqqc ataatqqaca attaaatcta
cattaattga actcatttgg gaagtaaaca aaatccatat tctggtgtaa atcaaactat
                                                                       180
ttgacgcgga tttactaaga acgtcatagc atagatagat gttgtgagtc attggataga
                                                                       240
                                                                       300
tattqtqaqt caqcatqqat ttqtqttqcc tqqaaatcca actaaatqac aagcaacaaa
acctgaaatg ggctttagga gagatggttt atcaatttac atgttccatg caggctacct
                                                                       360
                                                                       420
tccactactc gacatggtta gaagttttga gtgccgcata tttgcggaag caatggcact
actcgacatg gttagaagtt ttgagtgccg catatttgcg gaagcaatgg ctaacagata
                                                                       480
                                                                       540
catattctgc caaaccccaa gaaggataat cactcctctt agataaaaag aacagaccaa
```

	ggctttagca gcttcttttg ttcataggct ctataaaagc	gaccgtccaa tgttggcaaa aaactaacct ccatccaacc	tgcaaacaat aaatctgttt ctgccctttt cggcgtgcac ttcacaatct cagttcactg	tgcaagcacc ccaaccgatt acaaccatgt catcatcacc	aattgctcct ttgtttcttc cctgaacctt	tacttatcca tcacgctttc cacctcgtcc	600 660 720 780 840 877
	<210> 31 <211> 1362 <212> DNA <213> Zea m	nays					
	<400> 31			,			
			ggaggagatc				60
			agagcagcct				120 180
			tcatggtgac				240
			actagaagag ttgttgctca				300
			ggcgcctgcg				360
			gaggaggaag				420
	tggagggcgg	actccagtgt	tgtgacctca	gatcaacgtt	ctcaaggctc	aaacaatcac	480
	actggaggta	gcagcatcag	gaataatcca	gtgcagaaca	agctgatgaa	cggcgaagat	540
			tcaaactgca				600
	tcctcgagag	atccttcacc	atcagacgaa	gacatggacg	gagaagtaga	gattctgggg	660 720
			aagagtgagg cgctcacctg				780
			gctgaggcgc				840
	gctaacgtcg	acaacagggt	gctgagagcg	gacatggaga	ccctaagagc	taaggtgaag	900
	atgggagagg	actctctgaa	gcgggtgata	gagatgagct	catcagtgcc	gtcgtccatg	960
	cccatctcgg	cgccgacccc	cagctccgac	gctccagtgc	cgccgccgcc	tatccgagac	1020
	agcatcgtcg	gctacttctc	cgccacagcc	gcagacgacg	atgcttcggt	cggcaacggt	1080
			tcaagagcct				1140 1200
			agcagcagcc gccgccgacc				1260
			aatggggcca				1320
			ttttatttgc				1362
	<210> 32						
,	<211> 1314						
	<212> DNA						
	<213> Zea m	nays					
	<400> 32						
			ggaggagatc				60
			agagcagcct				120
			tcatggtgac				180 240
			actagaagag ttgttgctca				300
			ggcgcctgcg				360
			gaggaggaag				420
	tggagggcgg	cctccagtgt	tgtgacctca	gatcaacgtt	ctcaaggctc	aaacaatcac	480
			gaataatcca				540
			tcaaactgca				600 660
			atcagacgaa				720
			aagagtgagg agccgctcac				780
			cctgctgagg				840

~~							
				gcggacatgg			900
				atagagatga			960
				gacgctccag			1020
				gccgcagacg			1080
				cctgcatcca			1140
				gccacgcatt			1200 1260
				acctccgcct			1314
ca	ggattatg	agetgetggg	tecaaatggg	gccatacaca	tggacatgta	LLag	1314
<2	10> 33						
	11> 466						
<2	12> DNA						
<2	13> Oryza	a sativa					
_ A I	00> 33						
		atgaagatga	ttttcatctt	tgctctcctt	actattacta	catgcagcgc	60
				tattaggcaa			120
				taatgagttc			180
				gtttcaactg			240
				ctaccaggac			300
				caatctctac			360
				atctacatat			420
				cggtgtcttg		3.5	466
-0	10> 34						
	102 34 11> 997						
	11> 997 12> DNA						
	12> DNA 13> Zea n	ກລນເ					
\2.	15/ 400 1	шауз					
	00> 34						
		atggacatga	tetecaacaa	cactiggagga	acatcaacac	0002022022	
CC							60
		gtgatgttgt	catcccccat	tataaaggag	gaagctaggg	acccaaagca	120
ga	cacgagcc	gtgatgttgt atgccccaaa	catcccccat taggtggcag	tataaaggag tggggagcgt	gaagctaggg aagccgaggc	acccaaagca cgcaactacc	120 180
ga tga	cacgagec aggegete	gtgatgttgt atgccccaaa aagtgcccac	catececcat taggtggcag getgegaete	tataaaggag tggggagcgt caacaacacc	gaagctaggg aagccgaggc aagttttgct	acccaaagca cgcaactacc actacaacaa	120 180 240
ga tg: tt:	cacgagec aggegete atageatg	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac	catcccccat taggtggcag gctgcgactc gctacttttg	tataaaggag tggggagcgt caacaacacc caaggcttgc	gaagctaggg aagccgaggc aagttttgct cgccgctatt	acccaaagca cgcaactacc actacaacaa ggacacatgg	120 180 240 300
gae tga tta	cacgagec aggegete atageatg gtaceete	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag	120 180 240 300 360
gad tga tta tga ata	cacgagec aggegete atageatg gtaceete ttgtettg	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc	tataaaggag tggggagegt caacaacacc caaggettge tgggtgtege ctcatctgct	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc	120 180 240 300 360 420
gad tga tta tga ata	cacgagec aggegete atageatg gtaceete ttgtettg geaceaae	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag	tataaaggag tggggagegt caacaacacc caaggettge tgggtgtege ctcatctget catcaacaaa	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa	120 180 240 300 360
gae tga tta tge tae ca	cacgagec aggegete atageatg gtaceete ttgtettg geaceaae tgaegatg	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg	tataaaggag tggggagegt caacaacacc caaggettge tgggtgtege ctcatetget catcaacaaa cttattccct	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat	120 180 240 300 360 420 480
gae tga tta tae tae ca	cacgagec aggegete atageatg gtaceete ttgtettg geaceaae tgaegatg egaeaggt	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt	tataaaggag tggggagegt caacaacacc caaggettge tgggtgtege ctcatetget catcaacaaa cttattecet cactatggac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc	120 180 240 300 360 420 480 540
gae tga tta tga ta ta gaa	cacgagec aggegete atageatg gtaceete ttgtettg geaceaae tgaegatg egaeaggt teacacea	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg	tataaaggag tggggagegt caacaacacc caaggettge tgggtgtege ctcatetget catcaacaaa cttattccct	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatccc tggtgcctaa caacacttat gatcattgtc caggagggag	120 180 240 300 360 420 480 540
gad tga tta tad cad gca ctad ctad ctad	cacgagec aggegete atageatg gtaceete ttgtettg geaceaac tgaegatg egaeaggt teacacea aggeaaca ataacaca	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg atttttcatg atggacaagc	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatccc tggtgcctaa caacacttat gatcattgtc caggagggag gtagtagtag cattttcgct	120 180 240 300 360 420 480 540 600 660
gad tga ttga ata ca ca cta cta cta	cacgagec aggegete atageatg gtaceete ttgtettg geaceaac tgaegatg egaeaggt teacacea aggeaaca ataacaca cateatat	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg atttttcatg atggacaagc tcaaccacta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatccc tggtgcctaa caacacttat gatcattgtc caggagggag gtagtagtag cattttcgct atgatgccag	120 180 240 300 360 420 480 540 600 660 720 780 840
gae tga tta tae ca gce cta cta gce cta	cacgagec aggegete atageatg gtaceete ttgtettg geaceaac tgaegatg egaeaggt teaeacea aggeaaca ataaeaca cateatat aactggtg	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900
gad tg: tg: at: ta: gc: ct: gc: ac: tg:	cacgagec aggegete atageatg gtaceete ttgtettg gcaceaac tgacegatg egacaggt teacacea aggeaaca ataacaca cateatat aactggtg gtgtatea	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gad tg: tg: at: ta: gc: ct: gc: ac: tg:	cacgagec aggegete atageatg gtaceete ttgtettg gcaceaac tgacegatg egacaggt teacacea aggeaaca ataacaca cateatat aactggtg gtgtatea	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900
tga ttga ttga ttaa car gca cta gca tga caa	cacgagec aggegete atageatg gtaceete ttgtettg gcaceaac tgacegatg egacaggt teacacea aggeaaca ataacaca cateatat aactggtg gtgtatea	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gae tga ttga tta car gcc cta gcc aca tga caa	cacgagec aggegete atageatg gtaceete ttgtettg gcaceaae tgacegatg egacaggt teacacea ataacaca cateatat aactggtg gtgtatea acaacaae	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gad tg: tg: tai ca: gc: ct: gc: ac: tg: ca: cc: 2: <2:	cacgagec aggegete atageatg gtaccete ttgtettg gcaccaae tgacgatg cgacaget tcacacea aggeaaca ataacaca catcatat aactggtg gtgtatea acaacaae	gtgatgttgt atgccccaaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gad tg: tg: tai cai gc: ct: gc: ac; tg: ca: ca: ca: ca: ca: ca: ca: ca: ca: ca	cacgagec aggegete atageatg gtaccete ttgtettg gcaccaac tgacgatg cgacaggt tcacacca aggeaaca ataacaca catcatat agtgtatea acaacaac	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc aacaacaaca	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gao tga ttga at tao ca gco cta gco aca tga caa 22 <22 <22 <22	cacgagec aggegete atageatg gtacete ttgtettg gcaccaae tgaegatg egaeaggt tcacacea ataacaca ataacaca acteatat aactggtg gtgtatea acaacaae 10> 35 11> 6227 12> DNA 13> Oryza	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcgggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc aacaacaaca	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa	tataaaggag tggggagcgt caacaacacc caaggettge tgggtgtcge ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggaggag gtagtagtag cattttcgct atgatgccag ataacacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gao tga ttga at: tai ca gco cta gco aca tga caaca cta (22 <22 <22 <40	cacgagec aggegete atageatg gtacete ttgtettg gcaccaae tgaegatg egaeaggt teacacea ataacaca ataacaca acteatat aactggtg gtgtatea acaacaae 10> 35 11> 6227 12> DNA 13> Oryza 00> 35	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc aacaacaaca	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa acaacaaggg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac acaataa	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg atttttcatg atggacaagc tcaaccacta aagagcagta aacaacaaca	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatccc tggtgcctaa caacacttat gatcattgtc caggagggag gtagtagtag cattttcgct atgatgccag ataacaacaa acaacaacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 997
gao tga tga tta tai ca gci cta gci cca cca cca cca cca cca cca cca cca c	cacgagec aggegete atageatg gtacete ttgtettg gcaccaac tgacgatg cgacaggt tcacacca aggeaaca ataacaca catcatat aactggtg gtgtatea acaacaac 10> 35 11> 6227 12> DNA 13> Oryza 00> 35 tacccatc	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc aacaacaaca  a sativa taatacatta	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa acaacaaggg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac acaataa	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta aacaacaaca	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatccc tggtgcctaa caacacttat gatcattgtc caggagggag gtagtagtag cattttcgct atgatgccag ataacaacaa acaacaacaa	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
gao tga tga tta tai ca gci cta gci cac cac ccac ccac ccac ccac ccac c	cacgagec aggegete atageatg gtacecte ttgtettg gcaccaac tgacgatg cgacaggt tcacacca aggeaaca ataacaca acteatat aactggtg gtgtatea acaacaac 10> 35 11> 6227 12> DNA 13> Oryza 00> 35 tacccate gggagget	gtgatgttgt atgccccaa aagtgcccac tcacaaccac cgcaatgtcc ggctctcaca gctagctcta cctaccccaa ggaggcggg atgtctctac ccgtctttcc agtctcacga ggtgcaatgt gggcctcagc ttgttgaacc aacaacaaca  a sativa  taatacatta atatttttat	catccccat taggtggcag gctgcgactc gctacttttg ccattggtgg cctcatcgtc gcaatatgag cgacaatggg gctttgactt ctagccaggg tagagatgct tgagtggtgg gcacaaatgg aggataacaa tctactggaa acaacaaggg	tataaaggag tggggagcgt caacaacacc caaggcttgc tgggtgtcgc ctcatctgct catcaacaaa cttattccct cactatggac gccagtgcct gagaggaggg caacaatgga gttgagtggc ggccatcatg caagcacaac acaataa	gaagctaggg aagccgaggc aagttttgct cgccgctatt aagaacaaac acctatgcac catatgatga aatgtgctcc aaccaacata atgctggctg attttcatg atggacaagc tcaaccacta aagagcagta aacaacaaca taatgcaatt ggcaattcgg	acccaaagca cgcaactacc actacaacaa ggacacatgg atgcctctag cattatcccc tggtgcctaa caacacttat gatcattgtc caggagggag gtagtagtag cattttcgct atgatgccag ataacaacaa acaacaacaa actattttt tacttaggta	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 997

```
240
tgttgtgttg ttgcagttag ggtacttgaa tagctccagc cgtgaaaacg aggggttttc
                                                                      300
qcaqqtttta taqqattqcc aaqttaqact aqqgcaattc atgttcacgg tattgtgtag
tatatgaaaa aggagatctc ccaaacaatt tataattttg tataagggag aaatcgaact
                                                                      360
                                                                      420
tgaggtgtct aattcaccaa ccgagctact ccctccgttt catatatgta tatacatata
                                                                      480
tacgtatata tacgtatata cacatatacg tatatacata tatggtatat acatatatat
                                                                      540
atatatata atatatat atgtgtgtgt gtgtatgtgg ggtggcaatg ctaaaaagtt
ttataatatg aacggatgaa gtactatcca ctaagtccct atagttttct ggcactgtgt
                                                                      600
agtatacgaa tgcacaatta tatccataaa attgatatta tatattcgtc gcgacgaaaa
                                                                      660
                                                                      720
taaaqacata atattcqqta taccatttat ccacqatata tctaaattcc actgatatat
ctaaattcca cttgatccct tttatggata aattctggat aacaattact accagcagta
                                                                      780
                                                                      840
tatectacta teagegeact geacaceaaa etaceeteac eeagtagtta caaacgeata
ttttgccgtt agttaattat tatccggtaa agaaggtaaa gaagattggt agtaatccaa
                                                                      900
                                                                     960
aattttccca accccaacct cggaacaaaa accgcgtagt atttgtcgta accaggagca
                                                                     1020
tecqaqteat taatttacae ecaaacacaa aaaattagea geaegeagee geetteecaa
                                                                     1080
tectetecte tetectetee tettetecaa geggeaatte gegegaggtt tteteegate
aaaccctcqa atcccccct cgcgaatcca tcggagggta gccccgcgat ccgcgtcggc
                                                                    1140
gagagcggat tccgattccg cgatggagcg ggtgttctcc gtggaggaga tctccgaccc
                                                                    1200
attetqqqte eegeeteege egeegeagte ggeggeggeg geecageage agggeggegg
                                                                    1260
                                                                    1320
cqqcqtqqct tcqqqaqqtq qtqqtqtt aqcqqqqqqc qqcqqcqq qqaacqcqat
                                                                    1380
qaaccqqtqc ccqtcqqaqt qqtacttcca gaagtttctg gaggaggcgg tgctcgatag
                                                                    1440
ccccqtcccq aacctagcc cgagggccga agcgggaggg atcagggggcg caggaggggt
ggtgccggtc gatgttaagc agccgcagct ctcggcggcg gcgacgacga gcgcggtggt
                                                                    1500
                                                                    1560
ggaccccgtg gagtacaacg cgatgctgaa gcagaagctg gagaaggacc tcgccgcggt
cgccatgtgg agggtacagc cattctcccc ccctctagta ctcgagagct tactgagatc
                                                                    1620
ggcaatgcta gctactgttt gcatcgaatg tttataggta tttagatcgg gcatttctat
                                                                    1680
                                                                     1740
agaccaatgg cgtccatggt cttgcaatgc gctctgttga gtgtcggtgg ttggttcgac
tcatagtatg tagggttgtg cgtatgtaca aacggaagct tcatagacct cggtattgag
                                                                    1800
attgcgatat cgatgcaacc tgcgaattgg cgatgtaatc agtcatattc ttactaaact
                                                                    1860
                                                                     1920
qcqaqacaqt qqtttqtttq caattqcaat atttttqtat ggggctgctt aaactqtcat
tgccttttta gattggcaat atgtgacttt atgcaagtat ttgattgggc ggatccagga
                                                                    1980 .
                                                                     2040
acaaaaagtt ggggggattc aacataccga gtacactggc ataaacacat catctcagta
2100
tgaaaaaatt gaaggggga ctcagggggg tatccatggg tccgatgggt gcagggggga
                                                                     2160
ctgagtcccc cctgcaccca cgttgaatcc gccctggcat gcgtataagc tgtcacagcc
                                                                     2220
atttctaggt gcttgtgctt agttgggtga tgtcagctta atttgtcttt tctatgtcgt
                                                                     2280
catcgatttt ctaagaaacg aaaaatagcc tatttatgtg ctccagaatt tgatgatccc
                                                                     2340
                                                                     2400
tqqcccttca tttqctqaaa ttaqcctatt tqttqqttqc ccttcagttt tttcccagct
tatgttgttg caatgtgtgg ctatgcctcg ttttgtgccc tataatttat tatttgcaat
                                                                     2460
tcatttttgt acatgactta aaatgacact agagcaacat gcactgattg gttatcctat
                                                                     2520
aatcatttat gtagttctgt tcattttatc atgctagctc atgtcatttt catcttcagg
                                                                     2580
cctctqqcac aqttccacct qagcqtcctq gagctggttc atccttgctg aatgcagatg
                                                                     2640
                                                                     2700
tttcacacat aggegeteet aattecateg gaggtaetta tettatetgg ttacatttte
agattgttat gaaactaccc aaatatcctg cacaattgca tgggattaaa ttttagtttc
                                                                     2760
tttgaaatag aagtagagtt gtattgctgt cacgtcatca aatagttctg aagctatgaa
                                                                     2820
                                                                     2880
taaataagtt ccgcatttgt tagtgattct ttgaacatta gaattgttat gcttaagtag
atagggttat gtttgtttgg agttccctta aatcatttca ttgctgactg ccagctggca
                                                                     2940
ggagcatttg ttgttgcctt gaccatgaat gaagaccttc ctgttctgag tgctcacaag
                                                                     3000
                                                                     3060
aaaacatatt ttgattaatg caccttgaat ccttaggatc ttgcaaagat gggcacttag
ctttagaatt gagtagtact taaatagctg ttgttatcat gatttgtcct gtagtgaaat
                                                                     3120
gtcgacaaaa caggaatgct acttttgact tctgatattt catgcctggc tttacttatg
                                                                     3180
ctctgtttgg aacatgggca catatcaggc aatgctactc cagttcaaaa catgctaagt
                                                                     3240
ggcccaagtg ggggatcggg ctcacagttg gtacagaatg ttgatgtcct tgtaaagcag
                                                                     3300
                                                                     3360
cccaccaqct cttcatcaaq qqaqcaqtca qatqatqatq acatgaaggg agaagctgag
accactggaa ctgcaagacc tgctgatcaa agattacaac gaaggtgatc attcattgct
                                                                     3420
tccttgtaat atagattctg tacataatta acctacctcg tcatgcatgc atgtgtccta
                                                                     3480
ttttcacctt agccctttca gttggatttc cactttcatc cggtagcctt tcagtttcct
                                                                     3540
attgcatcgc atatatgatc ttttacctac catattagtt ctctgtgtgc catactcagt
                                                                     3600
```

gcttagtgtc	tcgagcaaga	gaggaatttg	tatggctatt	acacgtagca	ctttgctctc	3660
tacttqttta	ttgacataag	caatttggga	tgaattaaat	ctgagttcac	atcatattcc	3720
ttatgtcaca	agtttctgaa	accgattgta	tctagtatct	ggttgatgca	ccccatctt	3780
ggatttgcaa	atcaaagtta	tactccctag	agagetttae	ctttcataaa	gcaattaccc	3840
caataaacca	cggatttgat	agctattgac	tatgattacc	agaattcatt	tggcagctat	3900
tttctcaatt	taagtttggt	attagtctca	gttggctgta	aaataatgtc	acggtagggt	3960
			gagttatgat			4020
acatitgcic	actaaaatca	aaatattcaa	acgtcacgtg	atgatatggt	ggattgcatt	4080
atacctiqta	ttgtttatta	tgttacttgt	gctagacaat	aatataggct	gttcttttgg	4140
			cttctcgata			4200
tgttccagga	agcaatccaa	tcgggagtca	gccaggcgct	caagaagcag	aaaggcagct	4260
cacttgaatg	agctggaggc	acaggtgtga	tagttcacat	agttattttc	gataagacat	4320
aaaatcctaa	attactggct	actgacttca	gttatggatt	tacttgttac	aggtatcgca	4380
attaagagtc	gagaactcct	cgctgttaag	gcgtcttgct	gatgttaacc	agaagtacaa	4440
tgatgctgct	gttgacaata	gagtgctaaa	agcagatgtt	gagaccttga	gagcaaaggt	4500
atgctatata	tgccttttgc	aatatgcatc	ccatggattg	ctactttggc	ttgtttcaaa	4560
ctttcaacgt	gacttgtgta	ccctgttatt	agaagaataa	tecegeetae	cattatactc	4620
tataaatcac	catttggcca	gtccaaacat	gattattaaa	tcaggtcaat	ctgaacattg	4680
aaatgtatca	aaaattcgca	ggtgaagatg	gcagaggact	cggtgaagcg	ggtgacaggc	4740
atgaacgcgt	tgtttcccgc	cgcttctgat	atgtcatccc	tcagcatgcc	attcaacagc	4800
tccccatctg	aagcaacgtc	agacgctgct	gttcccatcc	aagatgaccc	gaacaattac	4860
ttcgctacta	acaacgacat	cggaggtaac	aacaactaca	tgcccgacat	accttcttcg	4920
gctcaggagg	acgaggactt	cgtcaatggc	gctctggctg	ccggcaagat	tggccggcca	4980
gcctcgctgc	agcgggtggc	gagcctggag	catctccaga	agaggatgtg	cggtgggccg	5040
gcttcgtctg	ggtcgacgtc	ctgagaccga	aacccagagc	tgcttcggtt	ctgaaagaca	5100
ctgcgagcag	gaaatgatga	ttggacaggc	gtagacattg	ctaatgctgt	gaggttgatg	5160
attgttggtc	gtcgtcgtcg	tcattgtgca	ttctttgtaa	gggacacctc	ttagtaccct	5220
cttcttctaa	gggacttagt	accccttgtg	gatctcatcg	tcctaaatac	tatacacatt	5280
agccaaatgt	tcattggtgt	gatggcgtcg	tccctaattt	gaacgactga	tttcaggcag	5340
ctgctatgct	atcattcaat	aatattttga	tcgatgcttc	ctcttgtctt	ttgctcttaa	5400
			tgagctgttc			5460
ctcaatatct	caggtgttca	tttgaagttt	aaaggtgaac	tgataacaaa	cgtcaggcta	5520
tggtgaatga	agggacgtgt	acatccctaa	tacatgtcat	tttcataatc	aaattagttg	5580
			tcatcataca			5640
gtaaattttt	cgtttagaga	aaaaaaagg	aagccttata	taagattcac	cggtggggtg	5700
tgaacaataa	tcaatgaatg	agatcgcatc	ccgtaagggc	agcctagcta	gacaaaaatg	5760
			gcttgcgcac			5820
			agtgatacat			5880
			ggcatggaag			5940
			tgtactgtcc			6000
cagattagtc	tgatctcggg	cgcgttgagt	tcttgtggga	gatcttgttg	tggagtggca	6060
ggagtgacga	tcggctgccc	cgttttcttc	taccgaaaca	tcgccagtaa	agaagccaaa	6120
aagacaataa	tacggcaatg	gggatcgccc	atctgcataa	aacattgcat	gacggaactg	6180
attaatacaa	gaatgacatg	taagctgata	attacgcgtg	caagctt		6227